

Purchasing Receipts



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

**PURCHASE ORDER
PO041319**

Supplier: ACI001-VC
Acer Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO041319
PO Date: 10/11/18
Due Date: 10/25/18
Purchase Order Revision:
Revision Date:
Ship-To Contact: Lavoie, ChantalPhone:
clavoie@dartaero.com

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments: quote no. sou0137125

E-MAILED
OCT 11 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	A1	M17-4-H1150-R1.500		17-4 SS Round Bar 1.500" MATERIAL: 17-4 PH CONDITION H1150 MATERIAL: 17-4 PH / S I7400 / TYPE 630 SS ROUND BAR GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD STRENGTH PER TABLE MINIMUM ULTIMATE STRENGTH PER TABLE SPECIFICATION: AMS 5643 OR ASTM A564 H1150 MIN. YIELD TENSILE 105 KSI / MIN. ULTIMATE TENSILE 135 KSI	Firmed	-	10/25/18	12 ft	0 ft	12 ft	\$58.80/ft	\$705.60
2	A1	M304B0.500X2.500		304 Bar .500 X 2.50 MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	10/19/18	12 ft	0 ft	12 ft	\$15.70/ft	\$188.40
3	A1	M6061T6B1.250X1.250		6061-T6 Bar 1.25 X 1.25 MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	10/16/18	12 ft	0 ft	12 ft	\$5.80/ft	\$69.60



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
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PURCHASE ORDER PO041319

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Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4		M6061T6B1.000X12.000		6061-T6 Bar 1.00 X 12.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	10/25/18	24 ft	0 ft 124 ft	24 ft	\$56.44/ft	\$1,354.56

Grand Total: \$2,318.16

Order Notes

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents
- A048 counterfeit parts avoidance, detection, mitigation and disposition program
- A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 10/11/18 11:16 AM dart.lavoie.chantal

ACIER OUELLETTE INC.

935, Boul. du Hâvre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation
SOU0137125
Billed to

DART AEROSPACE LTD

 1270, ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to

 1270, ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Att : PATRICK LUSSIER Tél.: (613) 632-5200 X 730

Customer N° CLI0001056

Date 2018/10/03

Revision N° 0

Prices valid until 2018/10/10

Your Order N°
Processed by Denis Quenneville

Salesman DENIS

Carrier OUELLE SDV

Credit Terms Net 30 Days

Page 1

Product N° and description	Weight	Qty U/M	Qty U/M	Price	Pcs Nb	Price	Amount
ROUND 4140 HEAT TREAT 2 1/4 (R) R4140-214H 4927 1 X 6' STOCK	81.12	6.00 PI_\$CLB	6.00 PI	31.90			191.40
ROUND 4140 HEAT TREAT 3 (R) R4140-3H 4955 1 X 4' STOCK	100.20	4.00 PI_\$CLB	4.00 PI	59.10			236.42
ROUND 4140 HEAT TREAT 3 1/2 (R) R4140-312H 4941 1 X 4' STOCK SORRY NO 3 1/4	135.56	4.00 PI_\$CLB	4.00 PI	69.80			279.19
ROUND 4140 HEAT TREAT 5 (R) 4981 R4140-5H 4981 1 X 4' STOCK	267.04	4.00 PI_\$CLB	4.00 PI	137.49			549.97
ROUND 17-4 H900 2.25 N STILL WAITING FOR ANSWER FROM SUPPLIER	0.00	1.00 UN	1.00 UN	0.00			0.00
ROUND 17-4 H1150 1.5 N 1 X 12' RANDOM LENGTH 7 TO 10 DAY	0.00	1.00 UN	1.00 UN	825.60			825.60
FLAT SS 1/2 X 2 1/2 SS304 HR RANDOM NS FSS-12212COULE-V 10513 1 X 12' RANDOM LENGTH 3/4 DAY	51.48	12.00 PI_\$CLB	12.00 PI	15.70			188.39
SQUARE ALU 1 1/4 6061-T6 * CAL-114 1775 1 X 12' STOCK	22.04	12.00 PI_\$CLB	12.00 PI	5.80			69.65
FLAT ALU 1 X 12 6061-T6 * FAL-112 2450 1 X 12' STOCK	169.34	12.00 PI_\$CLB	12.00 PI	56.44			677.29
ALUM 7075-T6 .375 X 6 N 6 X 4' CUT FROM PLATE 3/4 DAY	0.00	6.00 UN	6.00 UN	172.50			1 035.00

43.125 ft

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Hâvre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0137125

Billed to

DART AEROSPACE LTD
 1270, ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to

1270, ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Att : PATRICK LUSSIER Tél.: (613) 632-5200 X 730

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
FUEL CHARGE FRAIS ENERGETIQUE			\$						3.95
SPECIAL IMPORTATION FEES IMPORT			\$						0.00
NOTE : ATTENTION: MILL TEST REQUIS									

Total Weight (Lbs) 826.78

Important

This offer is based on the availability, the price of material can change without notice in function of the evolution of the current market prices and international importation fees.
 This offer is subject to credit approval.

Approved and Accepted by : _____

Date : _____

Sub-total 4 056.86
 TVH-13 · · 527.39

Total (\$CAD) 4 584.25

**ACIER OUELLETTE INC.**

935, Boul. du Havre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Factory

COPY

CO00115256

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

F-M

Shipped to1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Att : PATRICK LUSSIER Tél.: (613) 632-5200 X 730

Delivery Route 5

Customer N°

CLI0001056

2018/10/15

31

2018/10/26

PO041319

Denis Quenneville

Date

Delivery date

Your order N°

Processed by

Salesman

Carrier

Credit Termes

Net 30 Days

Product Description

Weight

Qty

UM

PCS NB

CMD

EXP

B/O

IN

I

S

C

OUT

Internal Use Only

1	FLAT SS 1/2 X 2 1/2 SS304 HR	10513	51.48	12.00	PI-\$CLB	0.00	X10					
	RANDOM NS											
	FSS-12212CQUE-V											
1 X	TRANSIST	3509 17/10										
2	SQUARE ALU 1 1/4 6061-T6	1775	22.04	12.00	PI-\$CLB	0.00	X10					
	CAL-114											
1 X 12"	heat	16097341B										
3	FLAT ALU 1 X 12 6061-T6 *	2450	338.69	24.00	PI-\$CLB	0.00	2X10					
	FAL-112											
2 X 12"	heat	SD170345										
4	ROND STAINLESS 1 1/2 17-4 RANDOM	8868	71.15	12.00	PI-\$CLB	0.00	12"10"					
	NS											
	RSS-112174-V											
1 X	AC20646-JG-18/10/29	Heat 275365										

Note : C: ATTENTION: MILL TEST REQUIS

Total Weight (LBS) : 483.36**NIR :** R-109516-6**Conditions :**

All sold and delivered materials remain the property of "Acer Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acer Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acer Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :

Verified By :

Delivered By :

Time

Customer's Signature

Y	M	D

Customer N°	CLI0001056
Date	2018/10/15
Delivery date	2018/10/26
Your order N°	31
Processed by	PO041319
Salesman	Denis Quenneville
Carrier	OUELLETTE VALLEYFIELD
Credit Termes	Net 30 Days

HST	317.49
Total (\$CAD)	2 759.75
Deposit	0.00
Balance	2 759.75

CERTIFICATE OF TEST CERTIFICAT D'ESAI

20646 N

Dart

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

AC00020646

PART NUMBER/NUMÉRO DE PIÈCE

510447

heat: 275365

Certification Date
29-OCT-2018

Invoice Number
T385103

SOLD TO: ACIER OUELLETTE INC. SHIP TO: ACIER OUELLETTE INC.
VENDU À: DIVISION SALABERRY DE VALLEYFIELD DIVISION SALABERRY DE VALLEYFIELD
935, BOUL. DU HAVRE 935, BOUL. DU HAVRE
SALABERRY-DE- VALLEYFIELD QC J6S 5L1 SALABERRY-DE- VALLEYFIELD QC J6

Description: 17-4 CF BAR COND H1150 ASTM A564
1-1/2 RD X 12' R/L Line Total: 76 LB
HEAT: 275365 ITEM: 510447

Specifications:

AMS 5643 V ASTM A564 T630 13E1 ASME SA564 T630 13
AMS 2303 F 3174-04 42

CHEMICAL ANALYSIS

C	MN	P	S	SI	CR	NI	MO
0.0360	0.56	0.023	0.001	0.46	15.19	4.57	0.23
CU	N	CB	TA	CBTA			
3.37	0.031	0.284	0.0012	0.285			

RCPT: R539244

COUNTRY OF ORIGIN : ITALY

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR PSI	ULT TEN PSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
COND H1150	133000.0	145300.0	21.8	66.4	297

MATERIAL IS FREE FROM MERCURY CONTAMINATION

NO WELD REPAIR PERFORMED ON MATERIAL

MACRO: OK

MICRO1:

MICRO CONTAINS NO MORE THAN 5% FERRITE

AMS NO :2301

SEVERITY :0.0

FREQUENCY:0.0

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES


Joanne Despres

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESAIS

Page 02 of 02

Certification Date
29-OCT-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT
AC00020646

Invoice Number
T385103

PART NUMBER/NUMÉRO DE PIÈCE
510447

SOLD TO:	ACIER OUELLETTE INC.	SHIP TO	ACIER OUELLETTE INC.
VENDU À:	DIVISION SALABERRY DE VALLEYFIELD 935, BOUL. DU HAVRE SALABERRY-DE- VALLEYFIELD QC J6S 5L1	EXPÉDIÉ À:	DIVISION SALABERRY DE VALLEYFIELD 935, BOUL. DU HAVRE SALABERRY-DE- VALLEYFIELD QC J6S 5L1
Description:	17-4 CF BAR COND H1150 1-1/2 RD X 12' R/L	ASTM A564	Line Total: 76 LB
HEAT:	275365	ITEM:	510447

COMMENTS
melt country italy/mfg usa
dfars compliant

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

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MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

SPECIFICATION CONTROL DRAWING

1	2	3	4	5	6	7	8	D																																				
C	B	A	C	B	A	C	B	D																																				
<p>△ PURCHASE MATERIAL: 17.4 PH / S17400 / TYPE 630 SS ROUND BAR GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD STRENGTH PER TABLE MINIMUM ULTIMATE STRENGTH PER TABLE</p>																																												
<p>△ SPECIFICATION: AMS 5643 OR ASTM A564 M174- HHHHH- R XXXX WHERE: HHHHH = SPECIFIC MATERIAL CONDITION (PER TABLE BELOW) COND O.D. XXXX = DIAMETER (IN INCHES)</p>																																												
<p>△ MATERIAL CONDITION TABLE:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>CODE</th> <th>CONDITION</th> <th>MIN YIELD STRENGTH (KSI)</th> <th>MIN ULTIMATE TENSILE STRENGTH (KSI)</th> </tr> </thead> <tbody> <tr> <td>(OMITTED)</td> <td>NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)</td> <td>100</td> <td>150</td> </tr> <tr> <td>H900</td> <td>H900</td> <td>170</td> <td>190</td> </tr> <tr> <td>H925</td> <td>H925</td> <td>155</td> <td>170</td> </tr> <tr> <td>H1025</td> <td>H1025</td> <td>145</td> <td>155</td> </tr> <tr> <td>H1075</td> <td>H1075</td> <td>125</td> <td>145</td> </tr> <tr> <td>H1100</td> <td>H1100</td> <td>115</td> <td>140</td> </tr> <tr> <td>H1150</td> <td>H1150</td> <td>105</td> <td>135</td> </tr> <tr> <td>COND A</td> <td>CONDITION A (SOLUTION TREATED)</td> <td></td> <td></td> </tr> </tbody> </table>									CODE	CONDITION	MIN YIELD STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)	(OMITTED)	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	100	150	H900	H900	170	190	H925	H925	155	170	H1025	H1025	145	155	H1075	H1075	125	145	H1100	H1100	115	140	H1150	H1150	105	135	COND A	CONDITION A (SOLUTION TREATED)		
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H1075	H1075	125	145																																									
H1100	H1100	115	140																																									
H1150	H1150	105	135																																									
COND A	CONDITION A (SOLUTION TREATED)																																											
<p>NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS</p>																																												
<p>MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE</p>																																												
<p>CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED</p>																																												
<p>△ EXAMPLES:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>PART</td> <td colspan="3">PART NUMBER</td> </tr> <tr> <td>4.000" DIAMETER BAR MIN UTS = 150 KSI, MIN YTS = 100 KSI</td> <td colspan="3">M174-R4000</td> </tr> <tr> <td>2.500" DIAMETER BAR H900 CONDITION</td> <td colspan="3">M174-H900-R2500</td> </tr> <tr> <td>3.250" DIAMETER BAR H1025 CONDITION</td> <td colspan="3">M174-H1025-R3250</td> </tr> <tr> <td>0.750" DIAMETER BAR A CONDITION</td> <td colspan="3">M174-CONDA-RU750</td> </tr> </table>									PART	PART NUMBER			4.000" DIAMETER BAR MIN UTS = 150 KSI, MIN YTS = 100 KSI	M174-R4000			2.500" DIAMETER BAR H900 CONDITION	M174-H900-R2500			3.250" DIAMETER BAR H1025 CONDITION	M174-H1025-R3250			0.750" DIAMETER BAR A CONDITION	M174-CONDA-RU750																		
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<p>△ RELEASE DATE</p> <p>2017-10-31</p> <p>E1717-728</p>																																												
<p>△ DRAWING NO.</p> <p>M174-R</p>																																												
<p>△ TITLE</p> <p>17.4 SS ROUND BAR</p>																																												
<p>△ APPROVED</p> <p>CP</p>																																												
<p>△ DATE</p> <p>17.09.14</p>																																												
<p>△ REV. C</p> <p>HAWTHORPE, ONTARIO, CANADA</p> <p>REVISION C</p>																																												
<p>△ SHEET 1 OF 1</p> <p>SCALING</p>																																												
<p>△ DATE</p> <p>05.03.16</p>																																												
<p>△ DRAFT AEROSPACE LTD</p> <p>Copyright © 2016 by DART AEROSPACE LTD. All rights reserved. No part of this document may be reproduced without written permission from the author.</p>																																												

105B

TRA-3509

PHOENIX TUBE COMPANY, INC.
Manufacturer of Stainless Ornamental and Structural Tubing
CERTIFICATION OF TEST

CUSTOMER ORDER# C113334

CUST REF NBR:

DATE SHIPPED: 01/23/18

SIZE 2-1/2" X 1/2" HRAP

SOURCE USA

VENDOR NAS

Phone# 5492603

Ext:

ORDER# 449238

QTY SHIPPED: 1110.0

GRADE: 304L

NO WELD: BAR

HEAT# 603L

TEST REPORT#: TR014623

Report Date: 11/06/17

Specification

CHEMISTRY THIS COLUMN:

ASTM A276 17
ASME SA276 COND. A

ASTM A479-17

ASME SA479-17

ASTM A240-16a

ASME SA240 13c

RoHS Compliant

ASTM A262-15. PRACT/ E

CORROSION OK. HRAP

ASTM A484-16

ASME SA484

ASTM A480-16b

ASME SA 480-16

NO WELD REPAIR

EN 10204 2.2

MILS 5059D AMEND 3

AMS5511H/AMS5513J

NACE MR0175/MR0103

AMS 5639J / AMS 5647K

QTY SHIPPED EQUALS LBS.

TYPE 304/304L DUAL CERTIFIED

UNS# 30400 / 30403

ASTM A666-15

AMS-QQ-S-763D COND A

CHEMISTRY ONLY

MERCURY IS NOT USED BY US AS AN ALLOYING MATERIAL NOR IS METALLIC MERCURY HANDLED IN THE VICINITY
OF OUR PROCESSING LINES. MATERIAL IS FREE OF MERCURY CONTAMINATION
MATERIAL HAS BEEN HEATED TO A MINIMUM OF 1800 DEG. F AND IS SUBSEQUENTLY COOLED
RAPIDLY TO PREVENT CARBIDE PRECIPITATION. SOLUTION ANNEALED

Chemical Analysis

C	MN	P	S	SI	CR	NI	MO	CU	CO	N2	TI
.018	1.74	.033	.002	.27	18.08	8.04	.34	.46	N/A	.09	N/A

Physical Analysis

Hardness	YIELD		TENSILE		OTHER	
	PSI	MPA	PSI	MPA	Percent EL	Percent RA
RB 79	44900	N/A	88870	N/A	66	73

THE CHEMICAL ANALYSES ARE CORRECT AS CONTAINED IN OUR CORPORATE RECORDS
MECHANICAL PROPERTIES ARE MEASURED FROM SHEET COIL AND PLATE BEFORE CUTTING

Melted & MFG in USA DFARS 252.225 Subsection Compliant, FAR BAA, DFAR BAA, FAR TAA Complies

CERTIFIED BY Inventory Control Dept.

Jane Lestav

1185 WIN DR, BETHLEHEM, PA., 18017 - (610) 865-5337
FAX NUMBER: 610-865-4073

L8580e

heat: 603L

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304 316 SS BAR OR AISI 304/316 SS PLATE
(NOTE: AISI 303 NOT ACCEPTABLE)

ASTM A376 OB ASTM A340

△ SPECIFICATION:
PART NUMBER:

WHERE "T.TTT" = THICKNESS IN INCHES
AND "WWW WWW" = WIDTH IN INCHES

EG. 0.5" x 3.0" BAR = M304B0.500X03.000
EG. 0.5" x 12" PLATE = M304B0.500X12.000

ES: 0.3 X 12.0 FERRITE = 101304+1000X112.0000

四

RELEASED
2010-11-30

23

40

5

6

1775

ML-114-✓

49445 TLA - 1007

MILL TEST

SHIP TO ACIER OUELLETTE SO DESCRIPTION 1.250" SQUARE		CERT CODE: 1	DIE NUMBER S 4763	DATE OF SHIPMENT Sep/29/2016	ORDER NO. 197683 - 17	MANIFEST NO. 357684
		CUSTOMER PO 100664	ALLOY 6061	SALESMAN TEMPER T6	SALESMAN HOUSE ACCOUNTS	MADE IN CANADA
		CUSTOMER PART NUMBER DT04763	PART DESCRIPTION 1.250" SQUARE		CERTIFICATION MILL TEST ASTM B221-14	

Mechanical Properties

Lot	Alloy	Test Date Sep/22/2016	Ultimate Tensile	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell E	Conductivity
			Strength (KSI)	(KSI)	39.60	10.80	89.9, 90.4, 90.7
A.11	6061		44.70				

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Tl	Ga	Y	B	Zr	Bi	Sn	Si	Cr	Al	Other
16097341B	A.11	6061	0.55	0.17	0.21	0.01	0.8	0.08	0	0.01	0.01	0	0	0	0	0	0	0	0	0	

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.



Heat : 16097341B

David Natale
Quality Control Manager

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4/12B/4/115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

△

PART NUMBER:

M6061T6B	T.TTT	X	WW.WWW
	THICK		WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-09-02
[Signature]

B	REMOVE QQ-A-250M1 OPTION REFORMAT NOTES. ADD ASTM B211(B221) (ZN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	<i>[Signature]</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO	REV. B
MFG. APPR.	<i>[Signature]</i>	M6061T6B	SHEET 1 OF 1
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DATE APPR.	<i>[Signature]</i>	6061-T6 BAR	NTS
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD	

B	REMOVE QQ-A-250M1 OPTION REFORMAT NOTES. ADD ASTM B211(B221) (ZN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	<i>[Signature]</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO	REV. B
MFG. APPR.	<i>[Signature]</i>	M6061T6B	SHEET 1 OF 1
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DATE APPR.	<i>[Signature]</i>	6061-T6 BAR	NTS
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD	

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Global Vietnam

Aluminium Co., Ltd

GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN B1-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,
BA RIA VUNG TAU PROVINCE, VIETNAM

Tel: +84(0)643924954

Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: 25 March, 2017

PO number: P-17025

Shipping Ref No.: 17-0459

LC No.: DC HMN710996

Date of issue: 15 March, 2017

Item Code: 1905900

Die Number: D00131

Alloy & Temper: 6061-T6511

Production Description: FLAT BAR 1" X 12" X 12' 6061-T6511 D00131

Length (inch): 144

Bundle number: P-17025-004

Heat Number: SXD170245

Date: 3/6/2017

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Al	Other		Remark:
									EACH	TOTAL	
0.624	0.921	0.208	0.270	0.017	0.102	0.012	0.023	97.732	<0.05	<0.10	3/3/2017

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
40.0	35.9	10.2	3/3/2017

All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard, with chemical analysis and mechanical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY
TNHH NHÔM TOÀN CẦU VIỆT NAM
GLOBAL VIETNAM ALUMINIUM
CO., LTD TESTING CENTER

R 211561

Heat: SXD 170245

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T651/T652 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4/128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)

OR ASTM B211 QR ASTM B21

PART NUMBER:

M6061T6B	T.TTT	X	W.WWW
	THICK		WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES

"W.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
JW
R 2009-03-02

B	REMOVE QQA-25011 OPTION REFORMAT NOTES ADD ASTM B21/22/21 (ZN D7-1)	CP 08/07/13
A	NEW ISSUE	DS 01/06/08
REV.	DESCRIPTION	BY DATE
	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
	DRAWN AJS	DRAWING NO. M6061T6B
	CHECKED AJS	REV. B
	MFG. APPR.	SHEET 1 OF 1
	APPROVED AJS	SCALE
	DE APPR. AJS	NTS
	DATE 09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE COPIED, REPRODUCED, OR TRANSFERRED IN WHOLE OR IN PART, IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF DART AEROSPACE LTD.

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